

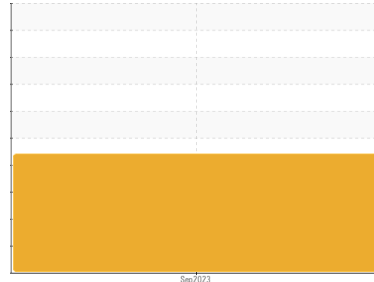
PROBLEM SUMMARY

Sample Rating Trend

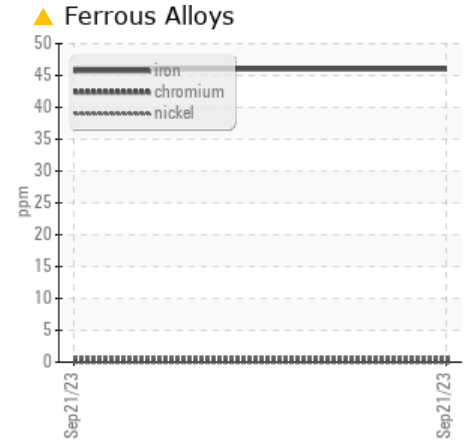
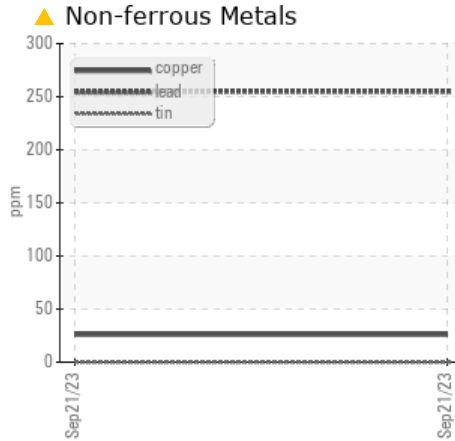
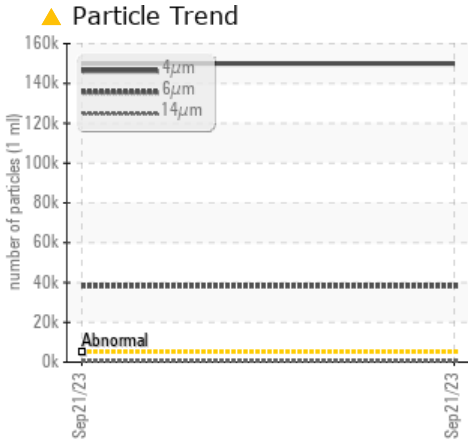
WEAR



Area
Kilian Mfg. - K02400
 Machine Id
AM908
 Component
Cutting Fluid
 Fluid
CHEM-ECOL CUTTING OIL 521 (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

This is a baseline read-out on the submitted sample.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	---	---
Iron	ppm	ASTM D5185(m)	▲ 46	---	---
Lead	ppm	ASTM D5185(m)	▲ 255	---	---
Copper	ppm	ASTM D5185(m)	▲ 26	---	---
Particles >4µm		ASTM D7647 >5000	▲ 149970	---	---
Particles >6µm		ASTM D7647 >1300	▲ 38227	---	---
Particles >14µm		ASTM D7647 >160	▲ 423	---	---
Particles >21µm		ASTM D7647 >40	▲ 81	---	---
Oil Cleanliness		ISO 4406 (c) >19/17/14	▲ 24/22/16	---	---

Customer Id: CHECOB
 Sample No.: E30000409
 Lab Number: 02585852
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Tatiana Sorkina +1 (800)263-3939
tsorkina@e360s.ca

To change component or sample information:
 Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

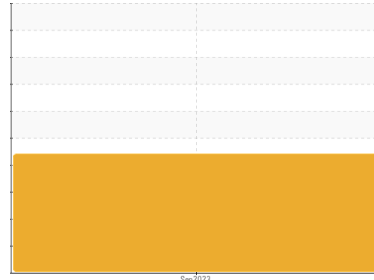
There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
Kilian Mfg. - K02400
 Machine Id
AM908
 Component
Cutting Fluid
 Fluid
CHEM-ECOL CUTTING OIL 521 (--- GAL)

DIAGNOSIS

- ▲ **Recommendation**
 This is a baseline read-out on the submitted sample.
- ▲ **Wear**
 Copper, iron and lead ppm levels are noted.
- ▲ **Contamination**
 Oil Cleanliness are abnormally high. Particles >4µm are abnormally high. Particles >6µm are abnormally high. Particles >14µm are abnormally high. Particles >21µm are abnormally high.
- Fluid Condition**
 {not applicable}

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Batch #	Client Info		AM908	---	---
Machine ID	Client Info		Sales	---	---
Sample Number	Client Info		E30000409	---	---
Sample Date	Client Info		21 Sep 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	▲ 46	---	---
Chromium	ppm	ASTM D5185(m)	<1	---	---
Nickel	ppm	ASTM D5185(m)	<1	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m)	<1	---	---
Aluminum	ppm	ASTM D5185(m)	2	---	---
Lead	ppm	ASTM D5185(m)	▲ 255	---	---
Copper	ppm	ASTM D5185(m)	▲ 26	---	---
Tin	ppm	ASTM D5185(m)	0	---	---
Antimony	ppm	ASTM D5185(m)	0	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

SULFUR CONTENT

	method	limit/base	current	history1	history2
Total Sulfur	%	ASTM D1552	1.88	---	---
Active Sulfur	%	ASTM D1662	0.79	---	---

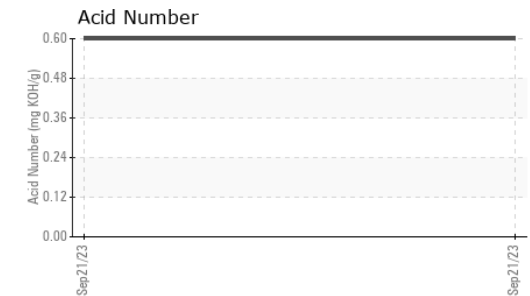
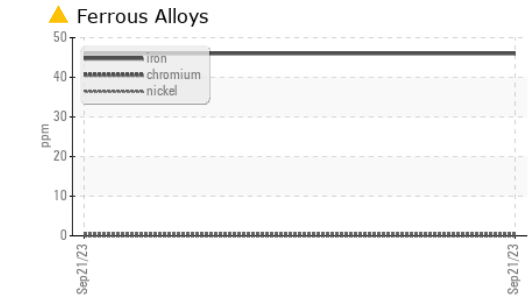
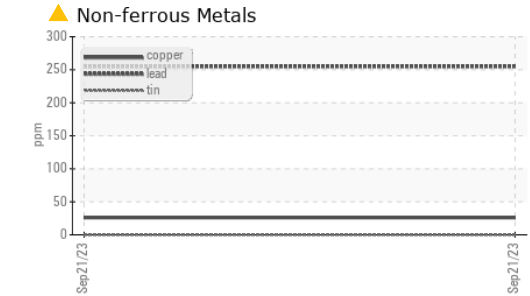
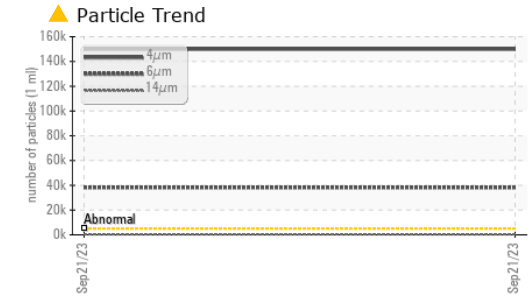
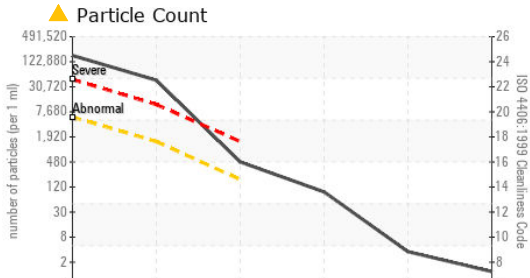
ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	---	---
Barium	ppm	ASTM D5185(m)	2	---	---
Molybdenum	ppm	ASTM D5185(m)	0	---	---
Manganese	ppm	ASTM D5185(m)	41	---	---
Magnesium	ppm	ASTM D5185(m)	68	---	---
Calcium	ppm	ASTM D5185(m)	677	---	---
Phosphorus	ppm	ASTM D5185(m)	367	---	---
Zinc	ppm	ASTM D5185(m)	317	---	---
Sulfur	ppm	ASTM D5185(m)	21334	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	6	---	---
Sodium	ppm	ASTM D5185(m)	5	---	---
Potassium	ppm	ASTM D5185(m)	<1	---	---
Water	%	ASTM D6304*	0.011	---	---
ppm Water	ppm	ASTM D6304*	116.4	---	---

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30000409 **Received** : 28 Sep 2023
Lab Number : **02585852** **Diagnosed** : 12 Oct 2023
Unique Number : 5654918 **Diagnostician** : Tatiana Sorkina
Test Package : IND 2 (Additional Tests: KV100, PrtCount, Sulphur-Active, Sulphur-Total, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 149970	---	---
Particles >6µm	ASTM D7647	>1300	▲ 38227	---	---
Particles >14µm	ASTM D7647	>160	▲ 423	---	---
Particles >21µm	ASTM D7647	>40	▲ 81	---	---
Particles >38µm	ASTM D7647	>10	3	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 24/22/16	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*		0.60	---	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar Visual*	NONE	NONE	---	---
Yellow Metal	scalar Visual*	NONE	NONE	---	---
Precipitate	scalar Visual*	NONE	NONE	---	---
Silt	scalar Visual*	NONE	NONE	---	---
Debris	scalar Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar Visual*	NONE	NONE	---	---
Appearance	scalar Visual*	NORML	NORML	---	---
Odor	scalar Visual*	NORML	NORML	---	---
Emulsified Water	scalar Visual*		NEG	---	---
Free Water	scalar Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
pH	Scale 0-14 ASTM D1287*		10.4	---	---
Visc @ 40°C	cSt ASTM D7279(m)	22	29.4	---	---
Visc @ 100°C	cSt ASTM D7279(m)		5.5	---	---
Viscosity Index (VI)	Scale ASTM D2270*		125	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image